

**NATURAL RESOURCES CONSERVATION SERVICE  
CONSTRUCTION SPECIFICATIONS**

**IRRIGATION LAND LEVELING**

**1. Scope**

The work shall consist of cutting, filling, and grading operations for the installation of the irrigation land leveling job as outlined on the construction plans or staked in the field.

**2. Location**

The land leveling shall be installed as specified on the construction plans.

**3. Clearing**

The land to be leveled shall be cleared of all trash, brush, crop residue, and vegetative material that can impede or hamper an effective leveling job.

**4. Field Grades**

Grades in the direction of irrigation and cross slopes shall be as specified on the land leveling map or staked in the field.

**5. Surface Drainage**

Surface field ditches, grassed waterways, and structures for water control shall be installed as indicated on the construction plans.

**6. Borrow and Spoil**

Excavation and fill required for roads, ditches, etc., outside the leveled field shall be carried out as specified on the construction plans or staked in the field.

**7. Earthwork Computations**

The cut and fill volumes will be computed using the 4-point method or other approved methods.

**8. Finish Grade**

The land shall be leveled to the design grade or grades shown on the construction plans. Allowable tolerance shall be plus or minus 0.1 foot with no reverse grades or as specified on the construction plans.

Fills over 6 inches should be built up by spreading the soil in successive layers. Fill material shall be free of weeds, crop residue, rock, rubble, and woody vegetation. Settlement allowance should be taken into consideration on fills over 1 foot.

Leveling operations shall not be performed under soil moisture conditions that would result in excessive damage to the soil structure.

**9. Measurement**

The design cut in cubic yards will be used as the measurement.

## **10. Construction Details**